Applicant: Friedrich BOECKING

Docket No. R.305747

Preliminary Amdt.

NEW ABSTRACT:

Please replace the original abstract with the following new abstract:

Abstract of the Disclosure

A fuel injection device has an injection valve, a line that supplies highly pressurized

fuel to the injection valve during operation, a control valve that controls the pressure in a

control chamber of the injection valve, which chamber is connected to the line, and whose

moving valve element is actuatable by an actuator via a hydraulic coupler having two pistons

cooperating with a coupler volume of the coupler, the seat of the moving valve element

having an inner cross-sectional surface area f3, and a conduit for filling the coupler volume

with pressurized fuel via guidance gaps of the pistons. The pistons are situated one inside the

other in parallel fashion; a booster chamber is situated at the ends of the pistons oriented

away from the actuator; inside the outer piston, there is a filling chamber that is connected to

the above-mentioned line; one of the pistons, which has a piston surface area f4, is

mechanically coupled to the actuator by means of a rod that has a cross-sectional surface area

f5; the other piston, which has a piston area f2, actuates the control valve by means of a rod

that has a cross-sectional area f1 that is smaller than f2; the direction of the closing movement

of the moving valve element coincides with the direction of fuel flowing out of the control

chamber so that the control valve is at least partially force-balanced due to the pressure acting

on the other piston in the filling chamber.

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